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OM nucleic - nucleic search, using sw model

Run on: June 17, 2003, 11:18:58 ; Search time 55.893 Seconds
(without alignments)
5580.127 Million cell updates/sec

Title: US-09-807-933B-8
Perfect score: 1017
Sequence: 1 atgaagttcaccgttgctat.....caggttgcgaaagaaagtaa 1017

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	221.4	21.8	984	4	US-09-230-665-7	Sequence 7, Appli
2	221.4	21.8	1473	1	US-08-090-013-3	Sequence 3, Appli
3	221.4	21.8	1473	1	US-08-081-328-3	Sequence 3, Appli
4	221.4	21.8	1473	1	US-08-232-249-3	Sequence 3, Appli
5	221.4	21.8	1473	2	US-08-833-642A-3	Sequence 3, Appli
6	221.4	21.8	1473	2	US-08-389-423-3	Sequence 3, Appli
7	221.4	21.8	1473	4	US-09-230-665-3	Sequence 3, Appli
8	221.4	21.8	1473	4	US-09-189-028-3	Sequence 3, Appli
9	207.4	20.4	1423	3	US-08-651-136C-9	Sequence 9, Appli
10	207.4	20.4	1423	4	US-09-229-911A-9	Sequence 9, Appli
11	204	20.1	912	4	US-09-189-060B-71	Sequence 71, Appl
12	202.8	19.9	919	4	US-09-189-060B-67	Sequence 67, Appl
13	200.6	19.7	924	4	US-09-189-060B-69	Sequence 69, Appl
14	188	18.5	922	4	US-09-189-060B-73	Sequence 73, Appl
15	186.8	18.4	922	4	US-09-189-060B-65	Sequence 65, Appl
16	186	18.3	1154	3	US-08-651-136C-7	Sequence 7, Appli
17	186	18.3	1154	4	US-09-229-911A-7	Sequence 7, Appli
18	184	18.1	1174	2	US-08-872-437-1	Sequence 1, Appli
19	184	18.1	1174	3	US-08-651-136C-11	Sequence 11, Appl
20	184	18.1	1174	4	US-09-229-911A-11	Sequence 11, Appl
21	179.4	17.6	807	4	US-09-230-665-5	Sequence 5, Appli
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23	179.4	17.6	1060	1	US-08-081-328-1	Sequence 1, Appli
24	179.4	17.6	1060	1	US-08-232-249-1	Sequence 1, Appli
25	179.4	17.6	1060	2	US-08-921-426-7	Sequence 7, Appli
26	179.4	17.6	1060	2	US-08-833-642A-1	Sequence 1, Appli
27	179.4	17.6	1060	2	US-08-140-008A-3	Sequence 3, Appli
28	179.4	17.6	1060	2	US-08-389-423-1	Sequence 1, Appli
29	179.4	17.6	1060	3	US-08-816-915-7	Sequence 7, Appli
30	179.4	17.6	1060	4	US-09-189-060B-55	Sequence 55, Appl
31	179.4	17.6	1060	4	US-09-230-665-1	Sequence 1, Appli
32	179.4	17.6	1060	4	US-09-189-028-1	Sequence 1, Appli
33	179.4	17.6	1060	5	PCT-US95-07743-7	Sequence 7, Appli
34	179.2	17.6	808	3	US-08-651-136C-15	Sequence 15, Appl
35	179.2	17.6	808	4	US-09-229-911A-15	Sequence 15, Appl
36	179	17.6	894	3	US-08-651-136C-3	Sequence 3, Appli
37	179	17.6	894	4	US-09-229-911A-3	Sequence 3, Appli
38	179	17.6	927	3	US-08-651-136C-5	Sequence 5, Appli
39	179	17.6	927	4	US-09-229-911A-5	Sequence 5, Appli
40	179	17.6	960	3	US-08-651-136C-1	Sequence 1, Appli
41	179	17.6	960	4	US-09-229-911A-1	Sequence 1, Appli
42	178.4	17.5	1031	3	US-08-651-136C-19	Sequence 19, Appl
43	178.4	17.5	1031	4	US-09-229-911A-19	Sequence 19, Appl
44	178.4	17.5	1048	3	US-08-651-136C-17	Sequence 17, Appl
45	178.4	17.5	1048	4	US-09-229-911A-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-09-230-665-7
; Sequence 7, Application US/09230665
; Patent No. 6322595
; GENERAL INFORMATION:
; APPLICANT: Boyer, Stanton L
; TITLE OF INVENTION: Detergent Composition Comprising Two Cellulase
; TITLE OF INVENTION: Components, with and without a Cellulose-Binding Domain
; FILE REFERENCE: 6191 Sequence Listing (8 Sequences)
; Patent No. 6322595
; CURRENT APPLICATION NUMBER: US/09/230,665
; CURRENT FILING DATE: 1999-01-29
; EARLIER APPLICATION NUMBER: 60/023,125
; EARLIER FILING DATE: 1996-07-30
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 984
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism:Organism encoding
; OTHER INFORMATION: an endoglucanase enzyme
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (97)..(735)
US-09-230-665-7

Query Match 21.8%; Score 221.4; DB 4; Length 984;
Best Local Similarity 63.9%; Pred. No. 8.9e-57;
Matches 371; Conservative 0; Mismatches 201; Indels 9; Gaps 2;

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Qy      460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
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Db      271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330

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              || |||||||||| |||||||| || ||||||||||||||  ||   ||  | ||
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Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
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Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
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Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
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RESULT 2
US-08-090-013-3
; Sequence 3, Application US/08090013
; Patent No. 5443750
; GENERAL INFORMATION:
; APPLICANT: CONVENTS, ANDRE C
; APPLICANT: BUSCH, ALFRED
; APPLICANT: BAECK, ANDRE C
; TITLE OF INVENTION: DETERGENT COMPOSITION WITH HIGH ACTIVITY
; TITLE OF INVENTION: CELLULASE AND SOFTENING CLAYS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THE PROCTER & GAMBLE COMPANY
; STREET: 5299 SPRING GROVE AVENUE
; CITY: CINCINNATI
; STATE: OHIO
; COUNTRY: USA
; ZIP: 45217
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/090,013
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 91202880.0
; FILING DATE: 06-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: PATEL, KEN K.
; REGISTRATION NUMBER: 33,988
; REFERENCE/DOCKET NUMBER: CM393
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 513-627-6437
; TELEFAX: 513-627-4854
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1473 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 97..1224
US-08-090-013-3

Query Match 21.8%; Score 221.4; DB 1; Length 1473;
Best Local Similarity 63.9%; Pred. No. 1.1e-56;

Matches 371; Conservative 0; Mismatches 201; Indels 9; Gaps 2;

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Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
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Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
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Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
Db        271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330
Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
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Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450
Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510
Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570
Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624
Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684
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RESULT 3
US-08-081-328-3
; Sequence 3, Application US/08081328
; Patent No. 5520838
; GENERAL INFORMATION:
; APPLICANT: BAECK, ANDRE C.
; APPLICANT: CEULEMANS, RAPHAEL ANGELINE A.
; APPLICANT: BUSCH, ALFRED (NMN)
; TITLE OF INVENTION: COMPACT DETERGENT COMPOSITIONS WITH
; TITLE OF INVENTION: HIGH ACTIVITY CELLULASE
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THE PROCTER & GAMBLE COMPANY
; STREET: 11810 East Miami River Road
; CITY: CINCINNATI
; STATE: OHIO
; COUNTRY: USA
; ZIP: 45253-8707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/081,328
; FILING DATE: 11/19/93
; CLASSIFICATION: 252
; ATTORNEY/AGENT INFORMATION:
; NAME: ZERBY, KIM WILLIAM
; REGISTRATION NUMBER: 32,323

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;       REFERENCE/DOCKET NUMBER:  CM356M
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  513-627-2885
;       TELEFAX:  513-627-0318
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1473 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  unknown
;       TOPOLOGY:  unknown
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  97..1224
US-08-081-328-3

  Query Match           21.8%;  Score 221.4;  DB 1;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

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Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
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Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
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Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
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Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
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Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
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Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
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Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570

Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
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Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
              |         |||     ||| | |  ||||  | ||| |||| |||||||| ||||
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684

Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
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Db        685 GCCGACAACCCTGACTTCACCTTTGAGCAGGTTCAGTGCCC 725


RESULT 4
US-08-232-249-3
; Sequence 3, Application US/08232249
; Patent No. 5610129
;  GENERAL INFORMATION:
;     APPLICANT:  McCORQUODALE, FINLAY (NMN)
;     APPLICANT:  BUSCH, ALFRED (NMN)
;     TITLE OF INVENTION:  DYE TRANSFER INHIBITING COMPOSITIONS
;     NUMBER OF SEQUENCES:  4
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  THE PROCTER & GAMBLE COMPANY
;       STREET:  5299 SPRING GROVE AVENUE
;       CITY:  CINCINNATI
;       STATE:  OHIO
;       COUNTRY:  USA
;       ZIP:  45217
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/232,249
;       FILING DATE:  05-MAY-1994
;       CLASSIFICATION:  510
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  EP 91202882.6
;       FILING DATE:  06-NOV-91
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  ALLEN, GEORGE W.
;       REGISTRATION NUMBER:  26,143
;       REFERENCE/DOCKET NUMBER:  CM-395
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  513-627-5946
;       TELEFAX:  513-627-8118
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1473 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  unknown
;       TOPOLOGY:  unknown
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  97..1224
US-08-232-249-3

  Query Match           21.8%;  Score 221.4;  DB 1;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
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Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              ||||| ||| ||||||  |  |||| |  || ||||     || |  | | |  | |
Db        211 GGAAAGGCTGCTGTCAACGCCCCTGCTTTAACTTGTGATAAGAACGACAACCCCATTTCC 270

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
              | |||||||   | ||||| |    ||||||  || ||     || | |||| ||
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Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
              || |||||||||| |||||||| || |||||||||||||| ||   ||  | ||
Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

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Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
              || |||||||| | || ||    |||||||| || || ||| | |||   ||||||
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
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Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
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Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624

Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
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Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
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RESULT 5
US-08-833-642A-3
; Sequence 3, Application US/08833642A
; Patent No. 5883066
;  GENERAL INFORMATION:
;    APPLICANT:  Ivan M. A. J. Herbots et al.
;    TITLE OF INVENTION:  Liquid Detergent Compositions
;    TITLE OF INVENTION:  Containing Cellulase and Amine
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jackie Ann Zurcher
;      ADDRESSEE:  Dinsmore & Shohl LLP
;      STREET:  255 E. Fifth Street
;      STREET:  1900 Chemed Center
;      CITY:  Cincinnati
;      STATE:  Ohio
;      COUNTRY:  USA
;      ZIP:  45202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch
;      COMPUTER:  IBM PC Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  WordPerfect 6.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/833,642A
;      FILING DATE:  April 8, 1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Zurcher, J. A.
;      REGISTRATION NUMBER:  P42,251
;      REFERENCE/DOCKET NUMBER:  CM551C
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (513) 977-8377
;      TELEFAX:  (513) 977-8141
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1473 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  fusarium oxysporum
;      STRAIN:  DSM 2672
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  97.1224
US-08-833-642A-3

  Query Match             21.8%;  Score 221.4;  DB 2;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
              ||||| || |||  | | ||||| || |||||||| || ||  ||||||||   |||
Db        151 TCTGGAAGCGGTCACTCTACTCGATACTGGGATTGCTGCAAGCCTTCTTGCTCTTGGAGC 210

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              ||||| ||| ||||||  |  |||| |   || ||||      || |  | | |  | |
Db        211 GGAAAGGCTGCTGTCAACGCCCCTGCTTTAACTTGTGATAAGAACGACAACCCCATTTCC 270

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
              |  ||||||||    |  ||||||  |    ||||||  || ||     || | |||| ||
Db        271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330

Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
                || |||||||||||| |||||||| || ||||||||||||||| ||   ||  | ||
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Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
              |   ||| ||  | |||||  ||||  || ||||  ||||||||||  |||||  | |
Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
                || |||||||||  | || ||    ||||||||  || || ||| |  |||    ||||||
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
              || ||| |    |||||||| |||||  || ||||||||||  | |||||   |  || | |
Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570

Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
              ||     ||| | |  | | || ||    || || ||| ||  |||        || |||
Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624

Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
              |  |||    |||  | ||  |||||  | ||| ||||| ||||||| |||||
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684

Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
              | || ||||||  | | |||||  || | |||   || ||
Db        685 GCCGACAACCCTGACTTCACCTTTGAGCAGGTTCAGTGCCC 725


RESULT 6
US-08-389-423-3
; Sequence 3, Application US/08389423
; Patent No. 5948672
;  GENERAL INFORMATION:
;    APPLICANT:  Rasmussen, Grethe
;    APPLICANT:  Mikkelsen, Jan Moller
;    APPLICANT:  Schulein, Martin
;    APPLICANT:  Patkar, Shankant A.
;    APPLICANT:  Hagen, Fred
;    TITLE OF INVENTION:  A Cellulase Preparation Comprising an
;    TITLE OF INVENTION:  Endoglucanase Enzyme
;    NUMBER OF SEQUENCES:  33
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 5948672o No. 5948672disk of No. 5948672th America, Inc.
;      STREET:  405 Lexington Avenue, 64th Floor
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  United States of America
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/389,423
;      FILING DATE:  14-FEB-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lambiris, Elias J.
;      REGISTRATION NUMBER:  33,728
;      REFERENCE/DOCKET NUMBER:  3469.214-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1473 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
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;       ORGANISM:  Fusarium oxysporum
;       STRAIN:  DSM 2672
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  97..1224
US-08-389-423-3

  Query Match           21.8%;  Score 221.4;  DB 2;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
              ||||| || |||  | | ||||| || |||||||| || ||  ||||||||   |||
Db        151 TCTGGAAGCGGTCACTCTACTCGATACTGGGATTGCTGCAAGCCTTCTTGCTCTTGGAGC 210

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              ||||| ||| ||||||  |  |||| |   || ||||     || |  | | |  | |
Db        211 GGAAAGGCTGCTGTCAACGCCCCTGCTTTAACTTGTGATAAGAACGACAACCCCATTTCC 270

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
              |  ||||||||   |  ||||||  |    ||||||  || ||      || | |||| ||
Db        271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330

Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
              || |||||||||| |||||||| || ||||||||||||||| ||   ||  | ||
Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
              |  ||| ||  | ||||| ||||  || ||||  ||||||||||  ||||| | |
Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
              || |||||||| | || ||    |||||||| || || ||| | |||   ||||||
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
              || ||| |    |||||||| ||||| || |||||||| | |||||  |  || | |
Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570

Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
              ||      ||| | |  | || ||    || || ||| ||  |||        || |||
Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624

Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
              |       |||   |||  | |  ||||  | ||| ||||| ||||||| |||||
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684

Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
              | || ||||||  | | |||||  || | |||   || ||
Db        685 GCCGACAACCCTGACTTCACCTTTGAGCAGGTTCAGTGCCC 725


RESULT 7
US-09-230-665-3
; Sequence 3, Application US/09230665
; Patent No. 6322595
; GENERAL INFORMATION:
;  APPLICANT: Boyer, Stanton L
;  TITLE OF INVENTION: Detergent Composition Comprising Two Cellulase
;  TITLE OF INVENTION: Components, with and without a Cellulose-Binding Domain
;  FILE REFERENCE: 6191 Sequence Listing (8 Sequences)
; Patent No. 6322595
;  CURRENT APPLICATION NUMBER: US/09/230,665
;  CURRENT FILING DATE: 1999-01-29
;  EARLIER APPLICATION NUMBER: 60/023,125
;  EARLIER FILING DATE: 1996-07-30
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 1473
;   TYPE: DNA
;   ORGANISM: Fusarium oxysporum
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (97)..(1224)
US-09-230-665-3

  Query Match           21.8%;  Score 221.4;  DB 4;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
              ||||| || |||  | | ||||| || |||||||| || ||  ||||||||   |||
Db        151 TCTGGAAGCGGTCACTCTACTCGATACTGGGATTGCTGCAAGCCTTCTTGCTCTTGGAGC 210

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              ||||| ||| ||||||  |  |||| |   || ||||     || |  | | |  | |
Db        211 GGAAAGGCTGCTGTCAACGCCCCTGCTTTAACTTGTGATAAGAACGACAACCCCATTTCC 270

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
              |  ||||||||   |  ||||||  |    ||||||  || ||      || | |||| ||
Db        271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330

Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
              || |||||||||| |||||||| || ||||||||||||||| ||   ||  | ||
Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
              |  ||| ||  | ||||| ||||  || ||||  ||||||||||  ||||| | |
Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
              || |||||||| | || ||    |||||||| || || ||| | |||   ||||||
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
              || ||| |    |||||||| ||||| || |||||||| | |||||  |  || | |
Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570

Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
              ||      ||| | |  | || ||    || || ||| ||  |||        || |||
Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624

Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
              |       |||   |||  | |  ||||  | ||| ||||| ||||||| |||||
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684

Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
              | || ||||||  | | |||||  || | |||   || ||
Db        685 GCCGACAACCCTGACTTCACCTTTGAGCAGGTTCAGTGCCC 725


RESULT 8
US-09-189-028-3
; Sequence 3, Application US/09189028
; Patent No. 6423524
;  GENERAL INFORMATION:
;    APPLICANT:  Rasmussen, Grethe
;    APPLICANT:  Mikkelsen, Jan Moller
;    APPLICANT:  Schulein, Martin
;    APPLICANT:  Patkar, Shankant A.
;    APPLICANT:  Hagen, Fred
;    TITLE OF INVENTION:  A Cellulase Preparation Comprising an
;    TITLE OF INVENTION:  Endoglucanase Enzyme
;    NUMBER OF SEQUENCES:  33
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 6423524o No. 6423524disk of No. 6423524th America, Inc.
;      STREET:  405 Lexington Avenue, 64th Floor
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  United States of America
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/189,028
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/389,423
;      FILING DATE:  14-FEB-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lambiris, Elias J.
;      REGISTRATION NUMBER:  33,728
;      REFERENCE/DOCKET NUMBER:  3469.214-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1473 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Fusarium oxysporum
;      STRAIN:  DSM 2672
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  97..1224
US-09-189-028-3

  Query Match             21.8%;  Score 221.4;  DB 4;  Length 1473;
  Best Local Similarity   63.9%;  Pred. No. 1.1e-56;
  Matches  371;  Conservative    0;  Mismatches  201;  Indels    9;  Gaps    2;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
              ||||| || |||  | | ||||| || |||||||| || ||  ||||||||   |||
Db        151 TCTGGAAGCGGTCACTCTACTCGATACTGGGATTGCTGCAAGCCTTCTTGCTCTTGGAGC 210

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              ||||| ||| |||||||  |  |||| |   || ||||      || |  | | | | |
Db        211 GGAAAGGCTGCTGTCAACGCCCCTGCTTTAACTTGTGATAAGAACGACAACCCCATTTCC 270

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATGGTTTCATGTGTAACAACAAC 576
              | ||||||||   |  |||||| |     ||||||  || ||      || | |||| ||
Db        271 AACACCAATGCTGTCAACGGTTGTGAGGGTGGTGGTTCTGCTTATGCTTGCACCAACTAC 330

Qy        577 CAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGC 636
                || |||||||||||| |||||||| || |||||||||||||| ||    ||  | ||
Db        331 TCTCCCTGGGCTGTCAACGATGAGCTTGCCTACGGTTTCGCTGCTACCAAGATCTCCGGT 390

Qy        637 TCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCT 696
                |  ||| ||  | ||||| |||| || |||| ||||||||||  ||||| | |
Db        391 GGCTCCGAGGCCAGCTGGTGCTGTGCTTGCTATGCTTTGACCTTCACCACTGGCCCCGTC 450

Qy        697 TCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCAC 756
              || ||||||||| | || ||    |||||||| || || ||| | |||   ||||||
Db        451 AAGGGCAAGAAGATGATCGTCCAGTCCACCAACACTGGAGGTGATCTCGGCGACAACCAC 510

Qy        757 TTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGG 816
              || ||| |    |||||||| ||||| || ||||||||| | |||||  |  || | |
Db        511 TTCGATCTCATGATGCCCGGCGGTGGTGTCGGTATCTTCGACGGCTGCACCTCTGAGTTC 570

Qy        817 GGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGT 876
              ||      ||| | |  | | ||| ||    || || ||| ||  |||         ||| |||
Db        571 GG------CAAGGCTCTCGGCGGTGCCCAGTACGGCGGTATCTCCTCCCGAAGCGAATGT 624

Qy        877 GCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAAC 936
              |      |||     |||  | |  ||||| | ||| ||||| ||||||||| |||||
Db        625 GATAGCTACCCCGAGCTTCTCAAGGACGGTTGCCACTGGCGATTCGACTGGTTCGAGAAC 684

Qy        937 TCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCC 977
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                | || ||||||  | | |||||  || | |||    || ||
Db        685 GCCGACAACCCTGACTTCACCTTTGAGCAGGTTCAGTGCCC 725


RESULT 9
US-08-651-136C-9
; Sequence 9, Application US/08651136C
; Patent No. 6001639
;  GENERAL INFORMATION:
;    APPLICANT:  Schulein, Martin
;    APPLICANT:  Andersen, Lene N.
;    APPLICANT:  Lassen, Soren F.
;    APPLICANT:  Kauppinen, Markus S.
;    APPLICANT:  Lange, Lene
;    APPLICANT:  Nielsen, Ruby I.
;    APPLICANT:  Ihara, Michiko
;    APPLICANT:  Takagi, Shinobu
;    TITLE OF INVENTION:  No. 6001639el Endoglucanases
;    NUMBER OF SEQUENCES:  109
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 6001639o No. 6001639disk of No. 6001639th America, Inc.
;      STREET:  405 Lexington Avenue, 64th Floor
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  United States of America
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/651,136C
;      FILING DATE:  21-MAY-1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lambiris, Elias J.
;      REGISTRATION NUMBER:  33,728
;      REFERENCE/DOCKET NUMBER:  4366.200-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1423 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  110..1156
US-08-651-136C-9

  Query Match             20.4%;  Score 207.4;  DB 3;  Length 1423;
  Best Local Similarity   60.1%;  Pred. No. 1.8e-52;
  Matches  365;  Conservative    0;  Mismatches  236;  Indels    6;  Gaps    1;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
              || ||||  ||   ||| || || || |||||||| || ||  ||||||||   |||
Db        173 TCGGGCAAAGGCCACACCACCCGCTACTGGGATTGCTGCAAGACTTCTTGCGCATGGGAG 232

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
              || || || || ||| | |  |||||     ||||||  |    |  | | | | | | |
Db        233 GGCAAGGCATCCGTCTCCGAGCCTGTCCTGACCTGTAACAAGCAGGACAACCCCATCGTC 292

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTTTCATGTGTAACAACAACCAA 579
              |||||||| ||    ||| || ||  |||| ||      |  ||    |||| ||||||
Db        293 GATGCCAACGCCAGAAGCGGCTGCGACGGCGGCGGGGCATTTGCCTGTACCAACAATTCC 352

Qy        580 CCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGCTCC 639
              |||||||| || |  || || || || ||||| || |||||  |  |  |    ||| |
Db        353 CCTTGGGCCGTGAGCGAGGACCTGGCCTACGGATTTGCTGCCACAGCCCTCAGCGGCGGC 412
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Qy        640 AACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCTTCT 699
Db        413 ACTGAGGGCAGCTGGTGCTGCGCGTGTTACGCCATCACATTCACGAGTGGCCCTGTGGCT 472

Qy        700 GGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCACTTT 759
Db        473 GGCAAGAAGATGGTCGTCCAGTCCACGAACACGGGAGGCGACCTGTCCAACAACCACTTT 532

Qy        760 GATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGGGGC 819
Db        533 GACCTGATGATTCCCGGTGGAGGCCTCGGCATCTTTGACGGTTGCTCGGCTCAGTTCGGA 592

Qy        820 GCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGTGCC 879
Db        593 CAACTTCTTCCCGGC------GAGCGTTACGGAGGTGTTTCGTCCCGCTCTCAATGCGAT 646

Qy        880 TCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAACTCT 939
Db        647 GGCATGCCCGAGCTCTTGAAAGACGGTTGCCAGTGGCGCTTCGACTGGTTCAAGAACTCA 706

Qy        940 GATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTGCTGAATTAACTACTCGCTCA 999
Db        707 GACAACCCTGACATCGAGTTCGAGCAGGTCCAGTGTCCCAAAGAGCTCATTGCGGTCTCT 766

Qy       1000 GGTTGCG 1006
Db        767 GGGTGCG 773


RESULT 10
US-09-229-911A-9
; Sequence 9, Application US/09229911A
; Patent No. 6387690
;   GENERAL INFORMATION:
;        APPLICANT: Schulein, Martin
;                   Andersen, Lene N.
;                   Lassen, Soren F.
;                   Kauppinen, Markus S.
;                   Lange, Lene
;                   Nielsen, Ruby I.
;                   Ihara, Michiko
;                   Takagi, Shinobu
;        TITLE OF INVENTION: No. 6387690el Endoglucanases
;        NUMBER OF SEQUENCES: 109
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: No. 6387690o No. 6387690disk of No. 6387690th America, Inc.
;             STREET: 405 Lexington Avenue, 64th Floor
;             CITY: New York
;             STATE: New York
;             COUNTRY: United States of America
;             ZIP: 10174-6401
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/229,911A
;             FILING DATE: 13-Jan-1999
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/651,136
;             FILING DATE: 21-MAY-1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Lambiris, Elias J.
;             REGISTRATION NUMBER: 33,728
;             REFERENCE/DOCKET NUMBER: 4366.200-US
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 212-867-0123
;             TELEFAX: 212-878-9655
;    INFORMATION FOR SEQ ID NO: 9:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1423 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA
;        FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  110..1156
;        SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-229-911A-9

  Query Match             20.4%;  Score 207.4;  DB 4;  Length 1423;
  Best Local Similarity   60.1%;  Pred. No. 1.8e-52;
  Matches  365;  Conservative    0;  Mismatches  236;  Indels    6;  Gaps    1;

Qy        400 TCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTAAAGCTTCTTGCAGCTGGCCT 459
Db        173 TCGGGCAAAGGCCACACCACCCGCTACTGGGATTGCTGCAAGACTTCTTGCGCATGGGAG 232

Qy        460 GGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCTCCAATGGTATCTCTTTATTA 519
Db        233 GGCAAGGCATCCGTCTCCGAGCCTGTCCTGACCTGTAACAAGCAGGACAACCCCATCGTC 292

Qy        520 GATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTTTCATGTGTAACAACAACCAA 579
Db        293 GATGCCAACGCCAGAAGCGGCTGCGACGGCGGCGGGGCATTTGCCTGTACCAACAATTCC 352

Qy        580 CCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTGCTGCCTCTATTGCTGGCTCC 639
Db        353 CCTTGGGCCGTGAGCGAGGACCTGGCCTACGGATTTGCTGCCACAGCCCTCAGCGGCGGC 412

Qy        640 AACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCTTCACTTCTGGCGCTGCTTCT 699
Db        413 ACTGAGGGCAGCTGGTGCTGCGCGTGTTACGCCATCACATTCACGAGTGGCCCTGTGGCT 472

Qy        700 GGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCGATTTAGGCTCTAACCACTTT 759
Db        473 GGCAAGAAGATGGTCGTCCAGTCCACGAACACGGGAGGCGACCTGTCCAACAACCACTTT 532

Qy        760 GATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATGGCTGTGCTGCTCAATGGGGC 819
Db        533 GACCTGATGATTCCCGGTGGAGGCCTCGGCATCTTTGACGGTTGCTCGGCTCAGTTCGGA 592

Qy        820 GCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCAGCTCTGTCTCTGACTGTGCC 879
Db        593 CAACTTCTTCCCGGC------GAGCGTTACGGAGGTGTTTCGTCCCGCTCTCAATGCGAT 646

Qy        880 TCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGATTCAACTGGTTCAAGAACTCT 939
Db        647 GGCATGCCCGAGCTCTTGAAAGACGGTTGCCAGTGGCGCTTCGACTGGTTCAAGAACTCA 706

Qy        940 GATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTGCTGAATTAACTACTCGCTCA 999
Db        707 GACAACCCTGACATCGAGTTCGAGCAGGTCCAGTGTCCCAAAGAGCTCATTGCGGTCTCT 766

Qy       1000 GGTTGCG 1006
Db        767 GGGTGCG 773


RESULT 11
US-09-189-060B-71
; Sequence 71, Application US/09189060B
; Patent No. 6270968
; GENERAL INFORMATION:
;  APPLICANT: Dalboge, Henrik
;  APPLICANT:  Sandal, Thomas
;  APPLICANT:  Kauppinen, Markus
;  APPLICANT:  Borge, Diderichsen
;  TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
;  FILE REFERENCE: 4772.204-US
;  CURRENT APPLICATION NUMBER: US/09/189,060B
;  CURRENT FILING DATE:  1998-11-10
```

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;  PRIOR APPLICATION NUMBER: PCT/DK97/00216
;  PRIOR FILING DATE: 1997-05-12
;  NUMBER OF SEQ ID NOS: 74
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 71
;   LENGTH: 912
;   TYPE: DNA
;   ORGANISM: Hybrid
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)...(912)
US-09-189-060B-71

  Query Match           20.1%;  Score 204;  DB 4;  Length 912;
  Best Local Similarity  60.2%;  Pred. No. 1.5e-51;
  Matches  377;  Conservative    0;  Mismatches  240;  Indels    9;  Gaps    2;

Qy        380 AGGTCATCTCTGGCGGTAAATCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTA 439
              |||||  |   | |  |||  |||    | ||  | ||||||||||||||||
Db         41 AGGTCGCGGCACCTGCTTTCGCTGCTGATGGCAGGTCCACGAGGTATTGGGATTGTTGCA 100

Qy        440 AAGCTTCTTGCAGCTGGCCTGGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCT 499
              | | || ||   ||| | || || || || ||  |   ||| ||   |||||| |
Db        101 AGCCGTCATGTGCTTGGTCCGGCAAGGCCTCAGTGTCATCTCCCGTGCGAACCTGTGACG 160

Qy        500 CCAATGGTATCTCTTTATTAGATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTT 559
              | ||    |  | |  || | | ||  | ||||  ||  | || ||   || ||
Db        161 CAAACAACTCGCCGCTGTCCGACGTCGACGCAAAGAGTGCGTGCGATGGAGGCGTTGCTT 220

Qy        560 TCATGTGTAACAACAACCAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTG 619
              ||  |||   ||||||  |||||||||||| || ||| | ||| |||| ||||||||| |
Db        221 ACACTTGTTCAAACAACGCGCCTTGGGCTGTTAACGATAACCTCTCTTATGGTTTCGCGG 280

Qy        620 CTGCCTCTATTGCTGGCTCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCT 679
              |  | ||||   |||| || |||  || | ||||| ||||  || ||  | |||||
Db        281 CCACAGCTATCAATGGCGGCAGCGAGTCTAGCTGGTGCTGTGCATGCTACAAGTTGACTT 340

Qy        680 TCACTTCTGGCGCTGCTTCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCG 739
              ||||   ||  ||||||||||||||   ||||| ||||||  ||||||||||   ||
Db        341 TCACGAGCGGACCTGCTTCTGGAAAGGTCATGGTCGTTCAATCAACCAACACCGGGTACG 400

Qy        740 ATTTAGGCTCTAACCACTTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATG 799
              || |          |||||||||||  | |  ||||| ||| |||||      ||| | |
Db        401 ATCTCTCTAACAACCACTTTGACATTCTTATGCCAGGTGGCGGTGTTGGAGCGTTCGACG 460

Qy        800 GCTGTGCTGCTCAATGGGGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCA 859
              ||||  ||   || |  |||        || |||||||||  |||||| |||||||
Db        461 GCTGCTCTAGGCAGTACGGC-------AGCATCCCTGGGGAGC--GATATGGGGGTGTCA 511

Qy        860 GCTCTGTCTCTGACTGTGCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGAT 919
              ||          | || | |   | |||  ||| ||  |  || ||  | ||| | |
Db        512 CATCAAGGGACCAATGCGACCAAATGCCAAGTGCACTCAAGCAGGGCTGCTATTGGCGCT 571

Qy        920 TCAACTGGTTCAAGAACTCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTG 979
              || | |||||||||||| | || || || | | | ||||    | ||    || |||
Db        572 TCGATTGGTTCAAGAACGCCGACAATCCGAGCTTCAGCTTCCGTCAGGTCCAGTGCCCAG 631

Qy        980 CTGAATTAACTACTCGCTCAGGTTGC 1005
              | ||  |/   ||||| | || |||
Db        632 CCGAGCTCGTCGCTCGCACCGGATGC 657


RESULT 12
US-09-189-060B-67
; Sequence 67, Application US/09189060B
; Patent No. 6270968
; GENERAL INFORMATION:
;  APPLICANT: Dalboge, Henrik
;  APPLICANT:  Sandal, Thomas
;  APPLICANT:  Kauppinen, Markus
;  APPLICANT:  Borge, Diderichsen
;  TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
;  FILE REFERENCE: 4772.204-US
```

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;  CURRENT APPLICATION NUMBER: US/09/189,060B
;  CURRENT FILING DATE:  1998-11-10
;  PRIOR APPLICATION NUMBER: PCT/DK97/00216
;  PRIOR FILING DATE: 1997-05-12
;  NUMBER OF SEQ ID NOS: 74
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 919
;   TYPE: DNA
;   ORGANISM: Hybrid
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (2)...(919)
US-09-189-060B-67

  Query Match           19.9%;  Score 202.8;  DB 4;  Length 919;
  Best Local Similarity  59.1%;  Pred. No. 3.3e-51;
  Matches  370;  Conservative    0;  Mismatches  247;  Indels    9;  Gaps    1;

Qy        380 AGGTCATCTCTGGCGGTAAATCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTA 439
              |||||  |   | |  |||  |||    | ||  | ||||||||||||||||
Db         48 AGGTCGCGGCACCTGCTTTCGCTGCTGATGGCAGGTCCACGAGGTACTGGGATTGTTGTA 107

Qy        440 AAGCTTCTTGCAGCTGGCCTGGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCT 499
              | | ||||||  ||||  |  || || || ||||  |  || ||    ||||| | |
Db        108 AGCCCTCTTGCTCCTGGGGCGACAAGGCCTCGGTCAGCGCCCCCGTCCTGACCTGCGACA 167

Qy        500 CCAATGGTATCTCTTTATTAGATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTT 559
              || |  | | |  | |  || ||||| ||    || ||||| ||||| || | |
Db        168 AGAACGACAACCCCATCTCCGACGCCAACGCCGTGAGCGGTTGCAACGGCGGCACTTCCT 227

Qy        560 TCATGTGTAACAACAACCAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTG 619
              ||  || | |||||||   || ||||||||||| ||  | ||||| || || || | |
Db        228 ACACCTGCAGCAACAACTCCCCGTGGGCTGTCAACGACAACCTCGCCTATGGCTTTGCCG 287

Qy        620 CTGCCTCTATTGCTGGCTCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCT 679
              || ||    | ||||  | |||  |  ||||| |||| || || |   | ||||
Db        288 CTACCAAGCTCTCTGGAGGCTCCGAGTCCAGCTGGTGCTGTGCTTGCTACGCTCTCACCT 347

Qy        680 TCACTTCTGGCGCTGCTTCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCG 739
              | ||  ||||| | |     || ||||  |||||  || ||     |||||||||| ||||
Db        348 TTACGACTGGCCCCGTGAAGGGCAAGACCATGGTCGTACAGTCCACCAACACCGGAGGCG 407

Qy        740 ATTTAGGCTCTAACCACTTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATG 799
              || | |||   |||||||| ||| | || |||||||| || || || |||||  | |
Db        408 ATCTCGGCGAGAACCACTTCGATCTCCAGATGCCCGGCGGCGGTGTCGGCATCTTTGACG 467

Qy        800 GCTGTGCTGCTCAATGGGGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCA 859
              ||||     | || |||||          ||    | | || |||   || || ||  ||
Db        468 GCTGCAGCTCCCAGTGGGG---------TGGCCTCGGCGGTGCTCAGTACGGCGGCATCT 518

Qy        860 GCTCTGTCTCTGACTGTGCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGAT 919
              ||          |||| | |    | |||       || | | || ||  | ||| | |
Db        519 CGTCGCGAAGCGACTGCGACAGCTTCCCCGAGCTGCTCAAGGACGGCTGCTACTGGCGCT 578

Qy        920 TCAACTGGTTCAAGAACTCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTG 979
              | |||||||||||||| | || || | | | | ||||    | ||    || |||
Db        579 ACGACTGGTTCAAGAACGCCGACAATCCGAGCTTCAGCTTCCGTCAGGTCCAGTGCCCAG 638

Qy        980 CTGAATTAACTACTCGCTCAGGTTGC 1005
              | ||  |     ||||| | || |||
Db        639 CCGAGCTCGTCGCTCGCACCGGATGC 664


RESULT 13
US-09-189-060B-69
; Sequence 69, Application US/09189060B
; Patent No. 6270968
; GENERAL INFORMATION:
;  APPLICANT: Dalboge, Henrik
;  APPLICANT:  Sandal, Thomas
;  APPLICANT:  Kauppinen, Markus
;  APPLICANT:  Borge, Diderichsen
```

```
;  TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
;  FILE REFERENCE: 4772.204-US
;  CURRENT APPLICATION NUMBER: US/09/189,060B
;  CURRENT FILING DATE:  1998-11-10
;  PRIOR APPLICATION NUMBER: PCT/DK97/00216
;  PRIOR FILING DATE: 1997-05-12
;  NUMBER OF SEQ ID NOS: 74
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 924
;   TYPE: DNA
;   ORGANISM: Hybrid
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)...(924)
US-09-189-060B-69

  Query Match             19.7%;  Score 200.6;  DB 4;  Length 924;
  Best Local Similarity   59.8%;  Pred. No. 1.5e-50;
  Matches  376;  Conservative    0;  Mismatches  244;  Indels    9;  Gaps    2;

Qy        380 AGGTCATCTCTGGCGGTAAATCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTA 439
              ||||| |   | | |||  |||  | || | || ||||||||| || |
Db         47 AGGTCGCGGCACCTGCTTTCGCTGCTGATGGCAGGTCCACGAGGTACTGGGATTGCTGCA 106

Qy        440 AAGCTTCTTGCAGCTGGCCTGGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCT 499
              | | ||||||  |||  ||||| ||| ||||||  | |||  |  |||||||  |
Db        107 AGCCCTCTTGCTCTTGGGGCGGAAAGGCTGCTGTCAGCGCCCCTGCTTTGACCTGTGACA 166

Qy        500 CCAATGGTATCTCTTTATTAGATGCCAATGCTCAAAGTGGTTGTAA---CGGTGGTAATG 556
              || |  | | |  | | | |    || |||   |  ||||||  |    ||||||  ||
Db        167 AGAAGGACAACCCCATCTCAAACCTGAACGCTGTCAACGGTTGTGAGGGTGGTGGTTCTG 226

Qy        557 GTTTCATGTGTAACAACAACCAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCG 616
              |||   || | ||||  ||   |||||||| ||||||||  | || ||  ||||| ||||
Db        227 CCTTCGCCTGCACCAACTACTCTCCTTGGGCGGTCAATGACAACCTTGCCTACGGCTTCG 286

Qy        617 CTGCTGCCTCTATTGCTGGCTCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGA 676
              ||||  ||    |||| ||   |  ||| | | | ||||| ||||  || || | | | |
Db        287 CTGCAACCAAGCTTGCCGGTGGCTCCGAGGGTAGCTGGTGCTGTGCTTGCTACGCACTTA 346

Qy        677 CCTTCACTTCTGGCGCTGCTTCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTG 736
              |||||||  | ||  | |     || ||||  ||||| || ||    ||||||||  || |
Db        347 CCTTCACCACCGGTCCCGTCAAGGGTAAGACCATGGTCGTCCAGTCCACCAACACTGGAG 406

Qy        737 GCGATTTAGGCTCTAACCACTTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCA 796
              ||||  | ||     |||||||| ||| |    ||||| ||||| || |||||  |||||
Db        407 GCGACCTCGGTGACAACCACTTCGATCTTATGATGCCTGGTGGCGGTGTTGGAATCTTCG 466

Qy        797 ATGGCTGTGCTGCTCAATGGGGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTG 856
              | || ||  || |||| |  ||      ||| | |  | | || ||    || |||||
Db        467 ACGGTTGCACTTCTCAGTTCGG------CAAGGCTCTCGGTGGTGCCCAGTACGGTGGCA 520

Qy        857 TCAGCTCTGTCTCTGACTGTGCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGA 916
              ||  |||       || || | |    | ||     ||||  | |  |||||  | |||
Db        521 TCTCCTCCCGAAGCGAGTGCGACAGCTTCCCTGAGACTCTCAAGGACGGTTGCCATTGGC 580

Qy        917 GATTCAACTGGTTCAAGAACTCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTC 976
              | ||| ||||||||||||||| | || || || | | | | ||||    |||     ||| |
Db        581 GCTTCGACTGGTTCAAGAACGCCGACAATCCGAGCTTCAGCTTCCGTCAGGTCCAGTGCC 640

Qy        977 CTGCTGAATTAACTACTCGCTCAGGTTGC 1005
              | || ||  |   ||||| | || |||
Db        641 CAGCCGAGCTCGTCGCTCGCACCGGATGC 669


RESULT 14
US-09-189-060B-73
; Sequence 73, Application US/09189060B
; Patent No. 6270968
; GENERAL INFORMATION:
;  APPLICANT: Dalboge, Henrik
;  APPLICANT:  Sandal, Thomas
;  APPLICANT:  Kauppinen, Markus
;  APPLICANT:  Borge, Diderichsen
;  TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
;  FILE REFERENCE: 4772.204-US
;  CURRENT APPLICATION NUMBER: US/09/189,060B
;  CURRENT FILING DATE:  1998-11-10
;  PRIOR APPLICATION NUMBER: PCT/DK97/00216
;  PRIOR FILING DATE: 1997-05-12
;  NUMBER OF SEQ ID NOS: 74
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
;   LENGTH: 922
;   TYPE: DNA
;   ORGANISM: Hybrid
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (2)...(922)
US-09-189-060B-73

  Query Match             18.5%;  Score 188;  DB 4;  Length 922;
  Best Local Similarity   57.5%;  Pred. No. 9.4e-47;
  Matches  360;  Conservative    0;  Mismatches  260;  Indels    6;  Gaps    1;

Qy        380 AGGTCATCTCTGGCGGTAAATCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTA 439
              |||||   |   | |  |||  |||    | || || ||||||||||| ||||
Db         48 AGGTCGCGGCACCTGCTTTCGCTGCTGATGGCAGGTCCACGCGGTATTGGGATTGCTGTA 107

Qy        440 AAGCTTCTTGCAGCTGGCCTGGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCT 499
              | |   |||  ||||||  |  || ||  |  ||   |   || || | |||||| | |
Db        108 AGCCCAGCTGCTCCTGGCCCGACAAGGCCCCCGTAGGTTCCCCCGTAGGCACCTGCGACG 167

Qy        500 CCAATGGTATCTCTTTATTAGATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTT 559
              ||      | | |  |   ||  ||   ||  |   ||| ||  | || ||       |
Db        168 CCGGCAACAGCCCCCTCGGCGACCCCCTGGCCAAGTCTGGCTGCGAGGGCGGCCCGTCGT 227

Qy        560 TCATGTGTAACAACAACCAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTG 619
              || |||   |||| |||| || ||||| |||||  ||||  || |||||  ||||| | |
Db        228 ACACGTGCGCCAACTACCAGCCGTGGGCGGTCAACGACCAGCTGGCCTACGGCTTCGCGG 287

Qy        620 CTGCCTCTATTGCTGGCTCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCT 679
              | | | ||     |||  || ||| |      ||||| || | ||| ||  |  | ||||
Db        288 CCACGGCCATCAACGGCGGCACCGAGGACTCGTGGTGCTGCGCCTGCTACAAGCTCACCT 347

Qy        680 TCACTTCTGGCGCTGCTTCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCG 739
              ||||    ||| | || || || |||| ||| | || ||    |||||||| || ||||
Db        348 TCACCGACGGCCCGGCCTCGGGCAAGACCATGATCGTCCAGTCCACCAACACGGGCGGCG 407

Qy        740 ATTTAGGCTCTAACCACTTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATG 799
              | |   |  ||||||||  ||  |||  || ||||| || ||||| || |||||| | |
Db        408 ACCTGTCCGACAACCACTTCGACCTGCTCATCCCCGGCGGCGGCGTCGGCATCTTCGACG 467

Qy        800 GCTGTGCTGCTCAATGGGGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCA 859
              ||||  |  | || |  |||     ||  |||  |    ||  ||  || || ||||
Db        468 GCTGCACCTCCCAGTACGGCCAGGCCCTGCCCGGC------GCCCAGTACGGCGGCGTCA 521

Qy        860 GCTCTGTCTCTGACTGTGCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGAT 919
              ||||  | | || || | |   | |||   ||  |  | || || ||  | ||| | |
Db        522 GCTCCCGCGCCGAGTGCGACCAGATGCCCGAGGCCATCAAGGCCGGCTGCCAGTGGCGCT 581

Qy        920 TCAACTGGTTCAAGAACTCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTG 979
              | | ||||| |||||| | || || || | | | | ||||    | ||    || || |
Db        582 ACGATTGGTTTAAGAACGCCGACAATCCGAGCTTCAGCTTCCGTCAGGTCCAGTGCCCAG 641

Qy        980 CTGAATTAACTACTCGCTCAGGTTGC 1005
              | ||  |     ||||| | || |||
Db        642 CCGAGCTCGTCGCTCGCACCGGATGC 667


RESULT 15
US-09-189-060B-65
; Sequence 65, Application US/09189060B
; Patent No. 6270968
; GENERAL INFORMATION:
```

```
;  APPLICANT: Dalboge, Henrik
;  APPLICANT:  Sandal, Thomas
;  APPLICANT:  Kauppinen, Markus
;  APPLICANT:  Borge, Diderichsen
;  TITLE OF INVENTION: Method Of Providing No. 6270968el DNA Sequences
;  FILE REFERENCE: 4772.204-US
;  CURRENT APPLICATION NUMBER: US/09/189,060B
;  CURRENT FILING DATE:  1998-11-10
;  PRIOR APPLICATION NUMBER: PCT/DK97/00216
;  PRIOR FILING DATE: 1997-05-12
;  NUMBER OF SEQ ID NOS: 74
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 65
;   LENGTH: 922
;   TYPE: DNA
;   ORGANISM: Hybrid
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)...(922)
US-09-189-060B-65

  Query Match             18.4%;  Score 186.8;  DB 4;  Length 922;
  Best Local Similarity   57.5%;  Pred. No. 2.2e-46;
  Matches  360;  Conservative    0;  Mismatches  257;  Indels    9;  Gaps    1;

Qy        380 AGGTCATCTCTGGCGGTAAATCTGGCAGTGGTTCCACAACTCGTTATTGGGATTGTTGTA 439
              |||||    |    | |    |||   |||     | || || || ||||||||| ||||
Db         47 AGGTCGCGGCACCTGCTTTCGCTGCTGATGGCAGGTCCACGCGGTACTGGGATTGCTGTA 106

Qy        440 AAGCTTCTTGCAGCTGGCCTGGAAAAGCTTCTGTCACTGGTCCTGTTGACACCTGTGCCT 499
              |  | || |||   ||||| || || ||    || |     || ||  || || |   |
Db        107 AGCCGTCGTGCTCGTGGCCCGGCAAGGCGCTCGTGAACCAGCCCGTCTACGCCCGCAACG 166

Qy        500 CCAATGGTATCTCTTTATTAGATGCCAATGCTCAAAGTGGTTGTAACGGTGGTAATGGTT 559
              | ||              |   ||  |||| || |    || ||  | || ||   | |
Db        167 CAAACTTCCAGCGCATCACCGACCCCAACGCCAAGTCCGGCTGCGATGGCGGCTCCGCCT 226

Qy        560 TCATGTGTAACAACAACCAACCTTGGGCTGTCAATGATGAGCTCGCTTACGGTTTCGCTG 619
              ||   ||   | || |   || ||||| || |  || ||  | || ||||||||||| |
Db        227 TCTCCTGCGCCGACCAGACCCCGTGGGCCGTGAGCGACGACTTTGCCTACGGTTTCGCGG 286

Qy        620 CTGCCTCTATTGCTGGCTCCAACGAAGCTGGATGGTGTTGTGGCTGTTATGAATTGACCT 679
              || |  |  | || |||     |||  ||   ||||| |||| ||| || ||| | ||||
Db        287 CTACGGCGCTCGCCGGCCAGTCCGAGTCTTCGTGGTGCTGTGCCTGCTACGAACTCACCT 346

Qy        680 TCACTTCTGGCGCTGCTTCTGGAAAGAAGATGGTTGTTCAAGTTACCAACACCGGTGGCG 739
              ||||||| ||| | | | |||| |||||||||| ||| ||    |||| ||| || || |
Db        347 TCACTTCGGGCCCCGTTGCTGGCAAGAAGATGGCTGTCCAGTCCACCAGCACTGGCGGTG 406

Qy        740 ATTTAGGCTCTAACCACTTTGATTTGCAAATGCCCGGTGGTGGCGTTGGTATCTTCAATG 799
              |  | ||    ||||||||||   |  | ||||| ||||| || || || |||||| | |
Db        407 ACCTCGGTAGCAACCACTTTGACCTCAACATGCCAGGTGGCGGTGTCGGCATCTTCGACG 466

Qy        800 GCTGTGCTGCTCAATGGGGCGCTCCCAATGATGGCTGGGGAGCTAGATATGGTGGTGTCA 859
              ||||  |  ||||    |||| ||          |   ||      | ||||| || |||
Db        467 GCTGCTCGCCTCAGGTTGGCGGTC---------TCGCCGGCCAGCGCTATGGCGGCGTCT 517

Qy        860 GCTCTGTCTCTGACTGTGCCTCTCTTCCCTCTGCTCTTCAAGCTGGTTGTAAATGGAGAT 919
              ||   |   || || | |||  | ||| | || ||  |  | || ||  | ||| | |
Db        518 CGTCCCGCAGCGAATGCGACTCCTTCCCCGCGGCACTCAAGCCCGGCTGCTACTGGCGCT 577

Qy        920 TCAACTGGTTCAAGAACTCTGATAACCCTACCATGACCTTCAAGGAAGTTACCTGTCCTG 979
               | ||||||| |||||| | || || || | | | | ||||    | ||    || || |
Db        578 ACGACTGGTTTAAGAACGCCGACAATCCGAGCTTCAGCTTCCGTCAGGTCCAGTGCCCAG 637

Qy        980 CTGAATTAACTACTCGCTCAGGTTGC 1005
              | ||  |    ||||| | || |||
Db        638 CCGAGCTCGTCGCTCGCACCGGATGC 663


Search completed: June 17, 2003, 18:55:36
Job time : 57.893 secs
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